L Number	Hits	Search Text	DB	Time stamp
1	8757	cyclodextrin	USPAT; US-PGPUB	2003/05/09 09:40
2	142324	acyl acylat$6 acetyl triacetyl	USPAT; US-PGPUB	2003/05/09 09:40
3	3989	nitroglycerin$4	USPAT; US-PGPUB	2003/05/09 09:40
4	2385	isosorbide	USPAT; US-PGPUB	2003/05/09 09:41
5	15823	prostaglandin prostanoid	USPAT; US-PGPUB	2003/05/09 09:42
6	412	cyclodextrin same (acyl acylat$6 acetyl triacetyl)	USPAT; US-PGPUB	2003/05/09 09:42
7	20147	nitroglycerin$4 isosorbide (prostaglandin prostanoid)	USPAT; US-PGPUB	2003/05/09 09:42
8	8757	cyclodextrin (cyclodextrin same (acyl acylat$6 acetyl triacetyl))	USPAT; US-PGPUB	2003/05/09 09:42
9	1422	(nitroglycerin$4 isosorbide (prostaglandin prostanoid)) and (cyclodextrin (cyclodextrin same (acyl acylat$6 acetyl triacetyl)))	USPAT; US-PGPUB	2003/05/09 09:42
10	5379	nitroglycerin$4 isosorbide	USPAT; US-PGPUB	2003/05/09 09:43
11	523	(cyclodextrin (cyclodextrin same (acyl acylat$6 acetyl triacetyl))) and (nitroglycerin$4 isosorbide)	USPAT; US-PGPUB	2003/05/09 09:43
12	15	nitroglycerin$4 and (cyclodextrin same (acyl acylat$6 acetyl triacetyl))	USPAT; US-PGPUB	2003/05/09 09:47
13	25	isosorbide and (cyclodextrin same (acyl acylat$6 acetyl triacetyl))	USPAT; US-PGPUB	2003/05/09 10:07
14	38	(prostaglandin prostanoid) and (cyclodextrin same (acyl acylat$6 acetyl triacetyl))	USPAT; US-PGPUB	2003/05/09 10:07

L Number	Hits	Search Text	DB	Time stamp
1	7374	cyclodextrin	EPO; JPO; DERWENT	2003/05/09 10:26
2	95287	acyl acylat$6 triacetyl acetyl	EPO; JPO; DERWENT	2003/05/09 10:26
3	9479	isosorbide nitroglycerin$2 prostaglandin prostacyclin prostanoid	EPO; JPO; DERWENT	2003/05/09 10:26
4	15	cyclodextrin and (acyl acylat$6 triacetyl acetyl) and (isosorbide nitroglycerin$2 prostaglandin prostacyclin prostanoid)	EPO; JPO; DERWENT	2003/05/09 10:32
5	243	maltosyl	EPO; JPO; DERWENT	2003/05/09 10:32
6	3	cyclodextrin and (isosorbide nitroglycerin$2 prostaglandin prostacyclin prostanoid) and maltosyl	EPO; JPO; DERWENT	2003/05/09 10:32

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     FILE 'REGISTRY' ENTERED AT 14:05:08 ON 09 MAY 2003
L5             1 S DILTIAZEM/CN
L6             0 S C72 H96 048/MF
L7             0 S C72 H96 048/MF
L8           918 S C6 H12 O6/MF
L9         24112 S CYCLODEXTRIN
L10      2549762 S .ALPHA.
L11         7152 S L9 AND L10
L12           49 S OCTADECAACETATE
L13           10 S L11 AND L12

     FILE 'CAPLUS' ENTERED AT 14:53:22 ON 09 MAY 2003
L14           31 S L13
L15       711645 S .GAMMA.
L16           13 S L14 AND L15

     FILE 'REGISTRY' ENTERED AT 14:56:56 ON 09 MAY 2003
L17       115465 S .GAMMA.
L18         3594 S L17 AND L9
L19       437863 S ?ACETATE
L20            0 S '?ACETATE'
L21       437863 S 'ACETATE'
L22          166 S L21 AND L18
L23            4 S L22 AND TETRACOSAACETATE

     FILE 'CAPLUS' ENTERED AT 15:03:49 ON 09 MAY 2003
L24           22 S L23
L25           15 S L24 NOT L16
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L14 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:242405 CAPLUS
DOCUMENT NUMBER: 138:256307
TITLE: Barrier material comprising nanosize metal particles having excellent barrier properties.
INVENTOR(S): Beaverson, Neil; Wood, Will
PATENT ASSIGNEE(S): Cellresin Technologies, LLC, USA
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003025067	A1	20030327	WO 2002-IB3804	20020916

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-322637P P 20010917
AB The material comprises (I) a matrix materials, (II) an effective absorbing amt. of a cyclodetrin materials which is dispersed in the matrix material, and (III) nanosized particles of zinc or similar reacting metal alloy (e.g, nanozinc). The cyclodextrin, free of an inclusion complex compd., comprises an .alpha.-cyclodextrin, a .beta.-cyclodextrin, a .gamma.-cyclodextrin or mixt. thereof, having pendant moieties or substituents that render the cyclodextrin compatible with the matrix materials (e.g., triacetyl .alpha.-cyclodextrin). The material is suitable for food-contact packaging, flexible packaging to dispose of adult and baby diapers, incontinent products, hospital and household waste and also for packaging pharmaceutical products, medical devices and dental materials.
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:752349 CAPLUS
DOCUMENT NUMBER: 137:287703
TITLE: Cyclodextrin composition for preparing substances having nano-pores
INVENTOR(S): Yim, Jin Heong; Mah, Sang Kook; Lyu, Yi Yeol; Nah, Eun Ju
PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1245628	A1	20021002	EP 2001-309616	20011114

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2002293989	A2	20021009	JP 2002-16754	20020125

PRIORITY APPLN. INFO.: KR 2001-15883 A 20010327
OTHER SOURCE(S): MARPAT 137:287703
AB The present invention provides a compn. for prepg. substances having nano-pores, said compn. comprising cyclodextrin deriv. as porogens, thermostable org. or inorg. matrix precursor, and solvent for dissolving said two solid components. There is also provided a low-k interlayer insulating film having evenly distributed nano-pores with a diam. less than 50 .ANG., which is required for semiconductor devices. Thus, hydrosilylating 2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane with trichlorosilane, followed by reacting the resulting deriv. with MeOH gave 2,4,6,8-tetramethyl-2,4,6,8-tetra(trimethoxysilylethyl)cyclotetrasiloxane, which was ring-opening polymd. to give a polysiloxane (I). Mixing 12% a purified I with 10.0% heptakis(2,4,6-tri-O-methyl)-.beta.-cyclodextrin in MIBK, spin coating the resulting mixt. on a boron-doped Si

wafer, baking at 150.degree. and at 250.degree. for 1 min each and calcining at 420.degree. for 60 min gave a dielec. film with thickness 5909 .ANG. and dielec. const. 2.25.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:185185 CAPLUS
DOCUMENT NUMBER: 136:247829
TITLE: Preparation of (maltohexaosyloxypropoxy)tetraphenylporphyrin derivatives as photosensitizers and compositions comprising the same
INVENTOR(S): Yano, Shigenobu; Kakuchi, Toyoji; Kinoshita, Isamu
PATENT ASSIGNEE(S): San-Ei Gen F.F.I., Inc., Japan
SOURCE: PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020621	A1	20020314	WO 2001-JP7757	20010906
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001084465	A5	20020322	AU 2001-84465	20010906

PRIORITY APPLN. INFO.: JP 2000-273650 A 20000908
WO 2001-JP7757 W 20010906

OTHER SOURCE(S): MARPAT 136:247829

AB Tetraphenylporphyrin derivs. of the general formula (I) or salts thereof [R1, R2, R3 and R4 are each independently a group represented by the formula Q, p-(n-dodecyloxy)phenyl, or 2,4,6-trimethylphenyl with the proviso that at least one of R1 to R4 is the group represented by the formula Q and at least one of the others is p-(n-dodecyloxy)phenyl] are prepd. These compds. I are nontoxic to cells in darkness, possess increased hydrophilicity and lipophilicity due to the introduction of maltohexaose and decyl groups, and exhibit the selectivity for binding to tumor cells owing to the cell recognition by maltose residue, and show cytotoxicity under irradn. with long wavelength light which is transmissive in cells or tissues. Thereby, they are useful as photosensitizers for photodynamic therapy (PDT) or photodynamic diagnosis (PDD) or as pressure-sensitive coatings. Thus, a soln. of 1.0 g 4-acetoxybenzaldehyde, 1.6 g 4-decyloxybenzaldehyde, and 0.85 mL pyrrole in 200 mL propanoic acid was refluxed for 1 h to give 3.1% 5,10-di(4-decyloxyphenyl)-15,20-di(4-hydroxyphenyl)porphyrin which (20.7 mg) was stirred with 163.5 mg 1-iodopropyl nonadeca-O-acetyl-.beta.-D-maltohexaose and 1 g K2CO3 in 20 DMF at room temp. for 60 h to give 45% 5,10-di(4-decyloxyphenyl)-15,20-bis[4-[3-(nonadeca-O-acetyl-.beta.-D-maltohexaosyloxy)propoxy]phenyl]porphyrin (II). Deacetylation of II with NaOMe in methanol gave 69.3% 5,10-di(4-decyloxyphenyl)-15,20-bis[4-[3-(.beta.-D-maltohexaosyloxy)propoxy]phenyl]porphyrin (III). When irradiated by a 500 W halogen lamp fitted with a filter (cut-off wavelength of 500 nm and shorter), III in vitro showed cytotoxicity against Hela cells.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:833134 CAPLUS
DOCUMENT NUMBER: 135:376749
TITLE: Acylated cyclodextrin: guest molecule inclusion complexes with drugs
INVENTOR(S): Buchanan, Charles M.; Szejtli, Jozef; Szente, Lajos; Vikmon, Maria; Wood, Matthew D.
PATENT ASSIGNEE(S): Eastman Chemical Company, USA
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085218	A2	20011115	WO 2001-US13499	20010426
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002025946	A1	20020228	US 2001-843037	20010426
EP 1280559	A2	20030205	EP 2001-928906	20010426
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: US 2000-203500P P 20000511
US 2000-205715P P 20000519
WO 2001-US13499 W 20010426

AB The present invention is directed to a method of making an inclusion complex comprising an acylated cyclodextrin host mol. and a guest mol., wherein the method comprises the steps of: (a) contacting the acylated cyclodextrin host mol. and the guest mol. to form an inclusion complex; and (b) pptg. the inclusion complex in an aq. medium. The present invention is further directed to an inclusion complex comprising an acylated cyclodextrin host mol. and a guest mol., wherein the guest mol. comprises form about 2 (wt.) to about 15 (wt.) of the inclusion complex. Moreover, the present invention relates to a compn. comprising a polymer and an inclusion complex, wherein the inclusion complex comprises an acylated cyclodextrin host mol. and a guest mol. and medical devices and solid pharmaceutical compns. comprised thereof. Triacetyl .beta.-cyclodextrin-nitroglycerin complexes were prepd. and release of nitroglycerin from the complex studied.

L14 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:	2001:561259 CAPLUS
DOCUMENT NUMBER:	135:304086
TITLE:	Oligosaccharide analogues of polysaccharides, Part 22. Synthesis of cyclodextrin analogues containing a buta-1,3-diyne-1,4-diyl or a butane-1,4-diyl unit
AUTHOR(S):	Hoffmann, Barbara; Zanini, Diana; Ripoche, Isabelle; Burli, Roland; Vasella, Andrea
CORPORATE SOURCE:	Laboratorium fur Organische Chemie, ETH-Zentrum, Zurich, CH-8092, Switz.
SOURCE:	Helvetica Chimica Acta (2001), 84(6), 1862-1888 CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER:	Verlag Helvetica Chimica Acta
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 135:304086

AB A peracetylated hexaamylose (maltohexaose) was obtained by an improved acetolysis of cyclomaltohexaose (.alpha.-cyclodextrin, .alpha.-CD), and transformed into the benzyl- and 4-chlorobenzyl-protected thioglycosides. Sequential chain elongation by glycosidation of the C-ethynylated glucosides gave the .alpha.-anomeric heptaglycosides and their anomers. These were transformed into the glycosyl acceptors. Glycosidation of these acceptors led to the benzyl-protected octasaccharides .alpha..alpha.5.alpha. and .beta..alpha.5.alpha., e.g. I, and to the chlorobenzylated analogs .alpha..alpha.5.alpha. and .beta..alpha.5.alpha. .alpha..alpha.5.beta. and .beta..alpha.5.beta.. Hay coupling of OBn- and OAc-protected linear octaoses .alpha..alpha.5.alpha. and .beta..alpha.5.alpha. led to the cyclooctaamylose (.gamma.-cyclodextrin) analogs. The influence of the constitution and configuration of the linear precursors on the rate and yield of the cyclization was relatively weak. Deprotection and hydrogenation of the cyclooctaamylose (.gamma.-cyclodextrin) analogs yielded the .gamma.-CD analogs, e.g. II, where one glycosidic O-atom is replaced by a butanediyl group, while FeCl3-promoted dechlorobenzylation did not affect the butadiyne moiety and afforded the acetyleno .gamma.-CD analogs. MM3* Force-field calcns. evidence the strong influence of the configuration and constitution of the new .gamma.-CD analogs on the shape of the cavity.

REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 31 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:	2001:510677 CAPLUS
DOCUMENT NUMBER:	135:293831
TITLE:	Preparation and characterization of novel peracetylated cyclodextrin complexes
AUTHOR(S):	Buchanan, C. M.; Dixon, D. W.; Offermann, R. J.;

Szejtli, J.; Szente, L.; Vikmon, M.
CORPORATE SOURCE: Eastman Chemical Company, Kingsport, TN, USA
SOURCE: Cyclodextrin: From Basic Research to Market, International Cyclodextrin Symposium, 10th, Ann Arbor, MI, United States, May 21-24, 2000 (2000), 526-536. Wacker Biochem Corp.: Adrian, Mich.
CODEN: 69BFYD
DOCUMENT TYPE: Conference; (computer optical disk)
LANGUAGE: English

AB The pptn. method was used as a practical and reliable technique for prepg. inclusion complexes of triacetyl-cyclodextrin (CD) that would be applicable to various different types of guest compds. The oily multicomponent vanilla and lemon exts. could be converted to solid triacetyl-CD/fragrance complexes by the pptn. method using acetone as the common solvent. Complexes of triacetyl-CD and fragrances provided an acceptable component distribution and total fragrance load. An aq. alc. soln. was the preferred common solvent in prepg. triacetylated CD/nitroglycerin (NG) and isosorbide 5-mononitrate complexes. X-ray diffractometry and thermoanal. investigations demonstrated complex formation in solid state. Complexation considerably reduced the volatility, thermal and storage stability problems of the complexed guests. Triacetyl-.beta.-CD could be considered as a multiparticulate sustained release carrier matrixes and may be useful for the prepn. of sustained release drug formulations.

L14 ANSWER 7 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:396940 CAPLUS
DOCUMENT NUMBER: 135:20104
TITLE: Method for producing polymers on the basis of 1,3-dienes
INVENTOR(S): Groenendaal, Lambertus; Ritter, Helmut; Storsberg, Joachim
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001038408	A2	20010531	WO 2000-EP11096	20001110
WO 2001038408	A3	20020620		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 19956326	A1	20010531	DE 1999-19956326	19991123

PRIORITY APPLN. INFO.: DE 1999-19956326 A 19991123

AB The invention relates to a method for producing polymers on the basis of 1,3-dienes by radical polymn. of cyclodextrin-complexed 1,3-dienes and optionally other unsatd. monomers which can optionally also be cyclodextrin-complexed, in an aq. soln. optionally in the presence of initiators and, optionally, .gtoreq.1 of chain-transfer agents, additives, and fillers. The water-sol. is increased and the vapor pressure decreased of the dienes by complexing with cyclodextrin, so that emulsifiers are not necessary in the polymn. and the polymn. may be performed in the absence of pressure in water.

L14 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:822614 CAPLUS
DOCUMENT NUMBER: 134:5258
TITLE: Procedure for the production of .pi.-conjugated polymers
INVENTOR(S): Groenendaal, Lambertus; Jonas, Friedrich; Pielartzik, Harald; Ritter, Helmut; Storsberg, Joachim
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 6 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19931114	A1	20001123	DE 1999-19931114	19990706
WO 2000072331	A1	20001130	WO 2000-EP4107	20000508
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1198799	A1	20020424	EP 2000-927161	20000508
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003500526	T2	20030107	JP 2000-620638	20000508

PRIORITY APPLN. INFO.: DE 1999-19923140 A1 19990520
DE 1999-19931114 A 19990706
WO 2000-EP4107 W 20000508

AB The process involves at least the steps: (1) formation of an inclusion compd. between a monomer and a cyclodextrin; and (2) polymn. of the monomer within the inclusion compd. by means of a chem. oxidizing agent. The cyclodextrin compd. intermediates are esp. suitable for the manuf. of multilayer printed circuit boards with through connections. Thus, 64 g 3,4-(ethylenedioxy)thiophene was added to a soln. of 600 g 2,6-dimethyl-.beta.-cyclodextrin in 1 L H2O and activated ultrasonically to form an inclusion compd., which was oxidatively polymd. with FeCl3. In the absence of FeCl3 or a similar oxidizing agent the cyclodextrin compd. was stable toward oxidn. by air, and the intensity of the monomer odor was also reduced.

L14 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:592401 CAPLUS
DOCUMENT NUMBER: 133:193619
TITLE: Bimetal cyanide-based catalysts used for preparing polyether polyols
INVENTOR(S): Ooms, Pieter; Hofmann, Jorg; Gupta, Pramod; Groenendaal, Lambertus
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1029871	A1	20000823	EP 2000-102138	20000207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19906985	A1	20000831	DE 1999-19906985	19990219
US 6204357	B1	20010320	US 2000-500840	20000210
JP 2000237596	A2	20000905	JP 2000-34979	20000214
BR 2000000700	A	20000829	BR 2000-700	20000221

PRIORITY APPLN. INFO.: DE 1999-19906985 A 19990219

AB Complexes prepd. from .gtoreq.1 bimetal cyanide, .gtoreq.1 cyclodextrin and .gtoreq.1 other ligand such a tert-BuOH exhibit high activity in ring-opening polymn. of alkylene oxides in presence of polyol initiators. Optionally, the complexes contain water and(or) water-sol. metal salt.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:209679 CAPLUS
DOCUMENT NUMBER: 132:248279
TITLE: Diagnostic agents for pancreatic exocrine function
INVENTOR(S): Kohno, Tadashi; Hosoi, Isaburo; Ohshima, Junko; Shibata, Kunihiko; Ito, Asuka
PATENT ASSIGNEE(S): Tokyo Gas Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

EP 989137	A2	20000329	EP 1999-307554		19990924
EP 989137	A3	20001011			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
JP 2000159773	A2	20000613	JP 1999-261979		19990916
JP 2000159810	A2	20000613	JP 1999-263300		19990917
NZ 337946	A	20011130	NZ 1999-337946		19990921
NZ 507949	A	20020301	NZ 1999-507949		19990921
AU 9948865	A1	20000330	AU 1999-48865		19990922
AU 755444	B2	20021212			
US 6254851	B1	20010703	US 1999-401739		19990923
NO 9904685	A	20000327	NO 1999-4685		19990924
PRIORITY APPLN. INFO.:			JP 1998-271252	A	19980925
			JP 1998-271253	A	19980925
			JP 1999-261979	A	19990916
			JP 1999-263300	A	19990917
			NZ 1999-337946	A1	19990921

AB The present invention provides a 13C-labeled oligosaccharide or polysaccharide or a salt thereof excluding U-13C-maltose, 13C-starch, 1-13C-maltotetraose and 1-13C-amylose; a deriv. of the 13C-labeled oligosaccharide or polysaccharide or salt thereof; a 13C-labeled inclusion complex or a salt thereof, which comprises a cyclodextrin or a modified deriv. thereof as a host mol.; a 13C- or 14C-labeled fluorescein ester compd. or a salt thereof; and a diagnostic agents for pancreatic exocrine function comprising these compds. 13C- or 14C-labeled. These reagents provide a test, particularly a breath test, which imparts a low stress on subjects and gives the results in a short period of time.

L14 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:794323 CAPLUS
DOCUMENT NUMBER: 132:23166
TITLE: Preparation of dioxane-substituted cyclodextrin macromolecules and inclusion complexes with cholesterol and hydrocortisone
INVENTOR(S): Pitha, Josef
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 13 pp., Cont.-in-part of U.S. 5,935,941.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6001821	A	19991214	US 1998-98490	19980617
US 5935941	A	19990810	US 1997-957359	19971024
PRIORITY APPLN. INFO.:			US 1995-595075	19951219
			US 1997-957359	19971024

AB The prepn. of compns. contg. cyclodextrin moieties which are modified by fusing 1,4 dioxane rights to glucopyranosyl residues via alkylation of cyclodextrins with epichlorohydrin in refluxing suspension of calcium hydroxide is described. These compns. are suited as carrier for pharmaceuticals, agricultural chems.
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:267343 CAPLUS
DOCUMENT NUMBER: 130:334150
TITLE: Synergistic bactericidal, fungicidal, and algicidal compositions containing triazines, isothiazolines, and triacetylcyclodextrin
INVENTOR(S): Kubota, Takao
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11116410	A2	19990427	JP 1997-303601	19971016
PRIORITY APPLN. INFO.:			JP 1997-303601	19971016
OTHER SOURCE(S):		MARPAT 130:334150		

AB Title compns., useful for coatings, plastics, cooling water, etc., contain triazines I [R1, R2 = H, (substituted) alkyl; R3, R4 = (substituted) (cyclo)alkyl; X = halo, alkylthio], isothiazolines II (R5 = alkyl; R6, R7

= H, halo; R6 = R7 .noteq. halo), and triacetyl-.alpha.-, .beta.-, and/or .gamma.-cyclodextrin. A suspension contg. I (R1 = R2 = H, R3 = t-Bu, R4 = cyclopropyl, X = SMe) 5, II (R5 = octyl, R6 = R7 = H) 5, and triacetyl-.beta.-cyclodextrin 30 wt.% was added to an acrylic styrene emulsion coating at 0.5 wt.% to show complete control of algae and fungi.

L14 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:461817 CAPLUS
DOCUMENT NUMBER: 129:203164
TITLE: X-ray structure of hexakis(2,3,6-tri-O-acetyl)-.alpha.-cyclodextrin
AUTHOR(S): Harata, Kazuaki
CORPORATE SOURCE: Biomolecules Department, National Institute of Bioscience and Human-Technology, Tsukuba, 305, Japan
SOURCE: Chemistry Letters (1998), (7), 589-590
CODEN: CMLTAG; ISSN: 0366-7022
PUBLISHER: Chemical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Crystal structure of hexakis(2,3,6-tri-O-acetyl)-.alpha.-cyclodextrin (cyclodextrin peracetate) was detd. by the X-ray method. The mol. with twofold crystallog. symmetry has a cavity with the shape of a rectangular box. Both ends of the cavity are closed by acetyl groups and a water mols. is included in the mol. cage.
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:90212 CAPLUS
DOCUMENT NUMBER: 126:124705
TITLE: Color photographic silver halide material with improved stability
INVENTOR(S): Hagemann, Joerg; Helling, Guenter
PATENT ASSIGNEE(S): Agfa-Gevaert Ag, Germany
SOURCE: Ger. Offen., 18 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19617770	A1	19961114	DE 1996-19617770	19960503
US 5935773	A	19990810	US 1996-639970	19960429

PRIORITY APPLN. INFO.: DE 1995-19517073 19950510
OTHER SOURCE(S): MARPAT 126:124705
AB In the title material comprising a yellow-coupler-contg. Ag halide emulsion layer(s) and a cyan-coupler-contg. Ag halide emulsion layer(s) on a support, the emulsion layer(s) contains 10-1,000 mg/m2 of compd. I (R1-3 = H, alkyl, alkenyl, acyl; n = 6-8). Other additives to the cyan-coupler-contg. layer and to the yellow-coupler-contg. layer are also claimed with Markush structures to improve light- and dark storage stability.

L14 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:687305 CAPLUS
DOCUMENT NUMBER: 126:47437
TITLE: Self-Assembled Hexasaccharides: Surface Characterization of Thiol-Terminated Sugars Adsorbed on a Gold Surface
AUTHOR(S): Fritz, Michaela C.; Haehner, Georg; Spencer, Nicholas D.; Buerli, Roland; Vasella, Andrea
CORPORATE SOURCE: Department of Materials, ETH-Zuerich, Zurich, CH-8092, Switz.
SOURCE: Langmuir (1996), 12(25), 6074-6082
CODEN: LANGD5; ISSN: 0743-7463
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A thiol-terminated hexasaccharide, protected with acetyloxy groups (AHS) was synthesized for the purpose of depositing self-assembled monolayers (SAMs) from soln. onto gold surfaces. XPS, ellipsometry, contact angle measurements, and imaging time-of-flight secondary ion mass spectroscopy (iToF-SIMS) were used to det. coverage, homogeneity, chem. compn., film thicknesses, and kinetics of film growth. Deprotection of the mols., i.e. replacing acetyloxy groups by hydroxyl groups, was performed following adsorption of AHS onto the surface, as well as prior to adsorption from soln. The chem. compn. of the resulting films, the film thickness, the d. of mols., and the nature of the surface functional groups were detd.

Adsorption of the deprotected mols. (DHS) from soln. was found to lead to a higher d. of adsorbed species.

L14 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:130827 CAPLUS
DOCUMENT NUMBER: 124:189455
TITLE: Use of ring forming oligosaccharide as charge controlling material
INVENTOR(S): Bauer, Ruediger; Macholdt, Hans-Tobias
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4418842	A1	19951207	DE 1994-4418842	19940530
EP 687959	A1	19951220	EP 1995-106355	19950427
EP 687959	B1	20011010		
R: BE, CH, DE, FR, GB, IT, LI				
US 5585216	A	19961217	US 1995-452339	19950526
JP 08095306	A2	19960412	JP 1995-130699	19950529

PRIORITY APPLN. INFO.: DE 1994-4418842 A 19940530
OTHER SOURCE(S): MARPAT 124:189455
AB Use is described of oligo- or polysaccharides with 3-100 monomer saccharides as charge controlling or charge enhancing material in electrophotog. toners, triboelec. or electrokinetic proofing powder, and electret material where the oligo- or polysaccharide has a 1,4-linked or 1,6-linked pyranose structure. The material provides improved charging.

L14 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:396641 CAPLUS
DOCUMENT NUMBER: 122:314996
TITLE: Modification of cyclodextrins by insertion of a heterogeneous sugar unit into their skeletons. Synthesis of 2-amino-2-deoxy-.beta.-cyclodextrin from .alpha.-cyclodextrin
AUTHOR(S): Sakairi, Nobuo; Wang, Lai-Xi; Kuzuhara, Hiroyoshi
CORPORATE SOURCE: Institute of Physical and Chemical Research, Saitama, 351-01, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1995), (4), 437-43
CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Title aminodeoxycyclodextrin I was prepd. from .alpha.-cyclodextrin via acetolysis of fully acetylated .alpha.-cyclodextrin resulted in restricted fission of only one of the glucosidic bonds to give the acyclic maltohexaose peracetate and coupling of D-glucosamine precursor with O-benzylated maltohexaoside. Regioselective modifications of both terminals of hexasaccharide were performed by employing Lewis acid-catalyzed thioglycosidation and O-benzylidenation followed by its reductive cleavage as the key reactions, to give the partially O-benzylated maltohexaoside with the sole hydroxy group at the 4VI-position.

L14 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:513927 CAPLUS
DOCUMENT NUMBER: 117:113927
TITLE: Cyclic heterooligosaccharides derived from cyclodextrins and strategy in their preparation
INVENTOR(S): Kuzuhara, Hiromi; Sakairi, Nobuo
PATENT ASSIGNEE(S): Rikagaku Kenkyusho, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04089801	A2	19920324	JP 1990-204723	19900801
JP 08000843	B4	19960110		

PRIORITY APPLN. INFO.: JP 1990-204723 19900801

OTHER SOURCE(S): MARPAT 117:113927

AB Claimed was derivs. such as cyclodextrins, e.g. of .beta.-form ring size and bearing non-glycosyl OH groups partially derivatized with O-PhCH2, O-Ac, and deoxy-C-amino or azido groups. Prepn. strategy comprises steps of (1) ring opening of a peracetylated cycldextrins of desired size, (2) thioglycosylating the product peracetylated maltooligomer, (3) deacetylating the thiomaltooligomer, (4) benzylidene-formation of the deprotected oligomer with .alpha.,.alpha.-dimethoxytoluene, and benzylation in the presence of catalyst, (5) deprotection of nonreducing end with BH3.NMe3-AlCl3, (6) coupling the produced oligosaccharide receptor with a desired saccharide donor in presence of catalyst, (7) deprotection as needed, and (8) ring closing using glycosylation catalyst to give final product. Exemplified was the insertion of an .alpha.-cyclodextrin with 6-O-acetyl-2-azido-3-O-benzyl-2-deoxy-4-O-(p-methoxybenzyl)-D-glucopyranose as the heterosaccharide donor.

L14 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:409200 CAPLUS

DOCUMENT NUMBER: 115:9200

TITLE: Insertion of a D-glucosamine residue into the .alpha.-cyclodextrin skeleton; a model synthesis of 'chimera cyclodextrins'

AUTHOR(S): Sakairi, Nobuo; Wang, Lai Xi; Kuzuhara, Hiroyoshi

CORPORATE SOURCE: Inst. Phys. Chem. Res., Wako, 351-01, Japan

SOURCE: Journal of the Chemical Society, Chemical Communications (1991), (5), 289-90
CODEN: JCCCAT; ISSN: 0022-4936

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 115:9200

AB Efficient conversion of .alpha.-cyclodextrin peracetate into icosa-O-acetylmaltohexaose (I) by acetolytic fission of one glycosidic linkage, a series of manipulations including coupling with 2-azido-2-deoxy-D-glucopyranose deriv. II, recyclization and final work-up (catalytic hydrogenolysis etc.) gave a novel .beta.-cyclodextrin analog III contg. a D-glucosamine residue as a monosaccharide component.

L14 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:143911 CAPLUS

DOCUMENT NUMBER: 114:143911

TITLE: Preparation of maltooligosaccharides and their derivatives as substrates for carbohydrases

INVENTOR(S): Kuzuhara, Hiromi; Sakairi, Nobuo

PATENT ASSIGNEE(S): Institute of Physical and Chemical Research, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02235898	A2	19900918	JP 1989-57235	19890309
JP 06078365	B4	19941005		

PRIORITY APPLN. INFO.: JP 1989-57235 19890309

AB Maltooligosaccharide with 6-8 degree of polymn. or their acetyl derivs., useful as substrates for detn. of carbohydrases (e.g. .alpha.-amylase) (no data), are prepd. without prodn. of oligomers with lower degree of polymn. by acetolysis of cyclodextrins having totally- or partially-protected hydroxy groups with Ac2O or its derivs. in the presence of acids followed by optional deprotection. Thus, stirring a soln. of .alpha.-cyclodextrin octadecaacetate in Ac2O-conc. HCl at 50-60.degree. for 36 h gave 58% icosaacetylmaltohexaose, suspension of which in MeOH was treated with NaOMe overnight to give maltohexaose, quant.

L14 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:24407 CAPLUS

DOCUMENT NUMBER: 114:24407

TITLE: Interglycosidic torsion angle estimation by carbon-13-proton coupling constant measurements

AUTHOR(S): Morat, Claude; Taravel, Francois R.

CORPORATE SOURCE: Lab. Etud. Dyn. Struct. Select., Univ. Joseph Fourier, Grenoble, 38041, Fr.

SOURCE: Bulletin of Magnetic Resonance (1989), 11(3-4), 321-3
CODEN: BUMRDT; ISSN: 0163-559X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB An equation relating 3-bond 13C-proton coupling and torsional bond angle was applied to detg. the interglycosidic torsional angle in acetylated

cyclomaltodextrins, cellulose triacetate, and amylose triacetate.

L14 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1990:459717 CAPLUS
DOCUMENT NUMBER: 113:59717
TITLE: Measurement of long-range heteronuclear couplings: application to oligosaccharide conformation
AUTHOR(S): Morat, Claude; Taravel, Francois R.
CORPORATE SOURCE: Lab. Etud. Dyn. Struct. Sel., Univ. Joseph Fourier, Grenoble, 38041, Fr.
SOURCE: Tetrahedron Letters (1990), 31(10), 1413-16
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The vicinal or 3-bond coupling consts. [3J(C,H)] values were measured by using 2-dimensional J heteronuclear-resolved NMR spectroscopy to est. interglycosidic conformations in various oligosaccharides with a d.p. ranging from 6 to 30.

L14 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1987:45678 CAPLUS
DOCUMENT NUMBER: 106:45678
TITLE: Effect of methoprene complexation with cyclodextrins on the juvenile hormone activity to silkworm
AUTHOR(S): Nakamura, Toshiie; Mochida, Kazuo; Saito, Osamu; Kimura, Yukio
CORPORATE SOURCE: Fac. Agric., Shimane Univ., Matsue, 690, Japan
SOURCE: Shimane Daigaku Nogakubu Kenkyu Hokoku (1985), (19), 159-64
CODEN: SDNKBB; ISSN: 0370-940X
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB Methoprene [40596-69-8] was included with .alpha.- and .beta.-cyclodextrin (CD) or .alpha.- and .beta.-cyclodextrin peracetate (CDA), and expts. were undertaken to investigate the effects of these inclusion complexes on the feeding period of 5th instar of the silkworm (Bombyx mori), cocoon wt., and cocoon shell wt. When the complexes and free methoprene were dissolved into DMSO-MeOH (3:7), and then given topically to the larvae at the 48th h of the 5th instar, the feeding period after the application was clearly prolonged in methoprene .beta.-CD inclusion compd. [94123-02-1] and methoprene .beta.-CDA inclusion compd. [106200-27-5], but nearly equiv. in methoprene .alpha.-CD inclusion compd. [106200-28-6] and methoprene .alpha.-CDA inclusion compd. [**106249-27-8**] in comparison with free methoprene. The cocoon wt. was apparently increased with the prolongation of feeding period, but the cocoon shell wt. was not always increased and the percentage of cocoon shell wt. was decreased with the high activity of methoprene. The disappearance rate of methoprene in .beta.-CD and .beta.-CDA complexes on the cuticle of larvae was smaller than that of free methoprene. Therefore, the prolongation of feeding period in 5th instar and the increase of cocoon wt. by the inclusion complexes would be caused by the slow release of methoprene from the complex.

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L14 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1984:6997 CAPLUS
DOCUMENT NUMBER: 100:6997
TITLE: A reversal in the order of H-6R and H-6S chemical shifts of some aldohexopyranose derivatives, associated with the acetylation of hydroxyl-4 and hydroxyl-6 groups. A distinction between 3- and 4-linked D-glucose residues in disaccharides
AUTHOR(S): Rao, Vanga S.; Perlin, Arthur S.
CORPORATE SOURCE: Dep. Chem., McGill Univ., Montreal, QC, H3A 2A7, Can.
SOURCE: Canadian Journal of Chemistry (1983), 61(12), 2688-94
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Peracetylation of Me .alpha.- or .beta.-D-glucopyranoside reversed the order of the chem. shifts of the 6,6'-methylene protons; thus, the normal H-6R signal downfield of H-6S appears upfield in the spectra of the tetraacetates. Data for a wide range of regioselectively acetylated D-glucose derivs. shows that the reversal in chem. shifts of the methylene protons occurs only when both O-4 and O-6 are acetylated. Hence in the disaccharide series, shift reversal is not obsd. with glucose residues that are bonded glycosidically through O-4, whereas the reversal occurs when the linkage is through O-3. A conformational model to account for these effects suggests that the 4- and 6-O-acetyl substituents are oriented by a weak, mutual, interaction so that the magnetic anisotropy of the CO group of the 6-O-Ac can induce selective deshielding of H-6S. The comparable influences of O-benzoyl and O-(4-nitro)benzoyl substituents on

chem. shift are consistent with this proposal. D-Mannopyranosides have characteristics analogous to those of their D-gluco epimers, whereas D-galactopyranosides give a different, more complex, chem. shift pattern.

L14 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1983:143749 CAPLUS
DOCUMENT NUMBER: 98:143749
TITLE: Preparative methods and NMR analysis for silylated derivatives of cyclodextrin
AUTHOR(S): Wife, R. L.; Reed, D. E.; Leworthy, D. P.; Barnett, D. M.; Regan, P. D.; Volger, H. C.
CORPORATE SOURCE: Shell Biosci. Lab., Sittingbourne, UK
SOURCE: Proc. Int. Symp. Cyclodextrins, 1st (1982), Meeting Date 1981, 301-25. Editor(s): Szejtli, Jozsef. Reidel: Dordrecht, Neth.
CODEN: 48THAM
DOCUMENT TYPE: Conference
LANGUAGE: English
AB Methods for the complete or partial (selective) silylation of .beta.-cyclodextrin are described that provide intermediates for further derivatization. The method is applied to the sequential attachment and attempted capping of .beta.-cyclodextrin by a porphyrin template. Representative proton NMR spectra for a series of silyl derivs. and intermediates are analyzed to demonstrate further the advantage of the method.

L14 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1979:39145 CAPLUS
DOCUMENT NUMBER: 90:39145
TITLE: Cyclodextrin chemistry. Selective modification of all primary hydroxyl groups of .alpha.- and .beta.-cyclodextrins
AUTHOR(S): Boger, Joshua; Corcoran, Richard J.; Lehn, Jean Marie
CORPORATE SOURCE: Dep. Chem., Harvard Univ., Cambridge, MA, USA
SOURCE: Helvetica Chimica Acta (1978), 61(6), 2190-218
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The primary hydroxy groups of .alpha.-cyclodextrin were modified via benzoylation of all 18 hydroxy groups and selective debenzoylation of the primary hydroxy groups, or by selective activation of the primary hydroxy groups via a triphenylphosphonium salt and substitution with azide. The products obtained included hexakis(6-amino-6-deoxy)-.alpha.-cyclodextrin.6HCl and hexakis(6-O-methyl)-.alpha.-cyclodextrin. .beta.-Cyclodextrin gave heptakis(6-azido-6-deoxy)-.beta.-cyclodextrin tetradeca(2,3)acetate by direct substitution.

L14 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1978:136862 CAPLUS
DOCUMENT NUMBER: 88:136862
TITLE: Carbon-13-proton inter-residue coupling in disaccharides, and the orientations of glycosidic bonds
AUTHOR(S): Parfondry, Alain; Cyr, Natsuko; Perlin, Arthur S.
CORPORATE SOURCE: Dep. Chem., McGill Univ., Montreal, QC, Can.
SOURCE: Carbohydrate Research (1977), 59(2), 299-309
CODEN: CRBRAT; ISSN: 0008-6215
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In examg. orientations of glycosidic linkages, measurements of three-bond coupling between 13C-1 and 1H-4', or 13C-4' and 1H-1, have been made from natural abundance, 1H-coupled, 13C-NMR spectra of maltose, cyclohexaamylose, and related compds. Maltose and cyclohexaamylose in water exhibit inter-residue 13C-O-C-1H couplings of close to 3 Hz. In terms of torsional angles, .PHI. and .PSI., these findings suggest that, in aq. soln., the mols. favor conformations that are appreciably more staggered than those known to exist in the solid state. Analogous measurements on O-acetyl derivs. suggest that .PHI. is smaller, and .PSI.larger, than in maltose. Data are also presented for sucrose, maltosan, and .alpha.,.alpha.-trehalose.

L14 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1974:83442 CAPLUS
DOCUMENT NUMBER: 80:83442
TITLE: Carbon-13 nuclear magnetic resonance spectra of cycloamyloses and their peracetates
AUTHOR(S): Takeo, Kenichi; Hirose, Kenji; Kuge, Takashi
CORPORATE SOURCE: Dep. Agric. Chem., Kyoto Prefect. Univ., Kyoto, Japan
SOURCE: Chemistry Letters (1973), (12), 1233-6
CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal
LANGUAGE: English
AB Carbon-13 chem. shifts were detd. for cyclohexa-, -hepta-, and -octamylose, amylase, Me 6-deoxy-.alpha.-D-glucopyranoside, 6-deoxycyclohexaamylose and its peracetate, and the peracetates of cyclohexa-, -hepta-, and -octaamylose. Steric effects imposed by the cyclic nature of the dextrins on the conformation of the glycopyranose residues were reflected in their spectra.

L14 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1971:9680 CAPLUS
DOCUMENT NUMBER: 74:9680
TITLE: Conformation of peracetylated cyclodextrins
AUTHOR(S): Takeo, Kenichi; Kuge, Takashi
CORPORATE SOURCE: Dep. Agr. Chem., Kyoto Prefect. Univ., Kyoto, Japan
SOURCE: Agricultural and Biological Chemistry (1970), 34(9), 1416-19
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
AB NMR spectral anal. of peracetylated cyclodextrins suggested that the glucose residues exist largely in the C1 conformation.

L14 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1970:101035 CAPLUS
DOCUMENT NUMBER: 72:101035
TITLE: Conformation of amylose and its derived products. IV. Conformation of acetylated cyclodextrins and amylose
AUTHOR(S): Casu, Benito; Reggiani, Mario; Gallo, Gian G.; Vigevani, Aristide
CORPORATE SOURCE: Ist. Sci. Chim. Biochim. G. Ronzoni, Milan, Italy
SOURCE: Carbohydrate Research (1970), 12(2), 157-70
CODEN: CRBRAT; ISSN: 0008-6215
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The conformation of the monomeric units and of the polymeric chain of the peracetates of .alpha.- and .beta.-cyclodextrin and amylose were investigated by ir and PMR spectroscopy. The spin-spin coupling consts. of the ring protons and the ir spectra indicate the C1 conformation for the D-glucopyranose units. The ir dichroism of an oriented film of amylose triacetate is consistent with a helical conformation of the chain. The chem. shift difference of signals for H-1 and H-4 in .beta.-cyclodextrin triacetate (assumed to be in a "quasieclipsed" chain conformation) and amylose triacetate is consistent with a rotation of the monomeric units of amylose triacetate around the C-1-O and C-4-O bonds. The solvent effect on the chem. shift of the ring and acetyl protons was studied and assignments for the acetyl signals of the triacetates of cyclodextrins and amylose are proposed.

L14 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1969:97113 CAPLUS
DOCUMENT NUMBER: 70:97113
TITLE: Clathrate compounds. XX. Optical rotatory dispersion spectra and conformation of glucose units in cyclodextrins
AUTHOR(S): Cramer, Friedrich; Mackensen, Georg; Sensse, Karl
CORPORATE SOURCE: Max-Planck Inst. Exp. Med., Goettingen, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1969), 102(2), 494-508
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
AB The comparison between the O.R.D. spectra of various cyclodextrin derivs. (carboxylic and sulfonic acid esters, iodides, xanthates, amines, and ethers) with that of the correspondingly substituted methyl D-glucopyranosides showed an .alpha.-D-glycoside linkage of the D-glucopyranoside units, and a probable C1 (D) chair conformation of the D-glucose rings.

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L25 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:906422 CAPLUS
DOCUMENT NUMBER: 138:5717
TITLE: Sealing element for vessel or container closures having improved barrier properties
INVENTOR(S): Wood, Will; Beaverson, Neil
PATENT ASSIGNEE(S): Cellresin Technologies, Llc, USA
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002094964	A2	20021128	WO 2002-IB3010	20020506

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-288839P P 20010505
AB The present invention relates to closure elements for containers comprising a sealing element, the sealing element comprising a thermoplastic polymer and an effective absorbing amt. of a cyclodextrin material; wherein the cyclodextrin material is selected from the group comprising .alpha.-cyclodextrin, .beta.-cyclodextrin, .gamma.-cyclodextrin, derivs. of .alpha.-cyclodextrin, .beta.-cyclodextrin and .gamma.-cyclodextrin and mixts. thereof. It has been found, that the sealing elements (e.g., liners) show excellent barrier properties with respect to permeants, such as arom. substances, esp. trichloroanisole, aldehydes or ketones and/or impurities from the polymer.

L25 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:127035 CAPLUS
DOCUMENT NUMBER: 136:369919
TITLE: Oligosaccharide analogues of polysaccharides. Part 24. Synthesis of cyclodextrin analogues containing a substituted buta-1,3-diyne or a 1,2,3-triazole unit and analysis of intramolecular hydrogen bonds
AUTHOR(S): Hoffmann, Barbara; Bernet, Bruno; Vasella, Andrea
CORPORATE SOURCE: Laboratorium fur Organische Chemie, ETH-Honggerberg, Zurich, CH-8093, Switz.
SOURCE: Helvetica Chimica Acta (2002), 85(1), 265-287
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The .alpha.- and .gamma.-CD analogs, which possess a hexa-2,5-diyne-1,6-dioxy unit, were synthesized by intramol. coupling of the bis-O-propargylated maltohexaoside, or the analogous maltooctaoside, followed by deprotection. The dialkynylated linear oligosaccharides were obtained by glycosidation of propargyl alc. with protected hexa- or octa-.beta.-D-phenylthio-maltosides, reductive cleavage of the benzylidene acetal, and propargylation of the terminal HO-C(4) group, resp. Two .beta.-CD analogs, which possess a penta-1,3-diyn-1-yl-5-oxy unit, were similarly obtained by intramol. oxidative coupling. The linear dialkynylated oligosaccharides used were obtained by two consecutive glycosylations, first with protected phenylthio-.beta.-D-malto-hexosides as donor, and then by glycosylation of the resulting propargyl maltohexoside with the C(4)-ethynylated donor I (R = p-chlorobenzyl). The proximity of the terminal units of maltooligosaccharides allowed a facile intramol. cycloaddn. of a protected .alpha.-2-azidoethynyl-4''''-O-propargyl-hexamaltoside to the isomeric triazoles, which were deprotected. Anal. of the intramol. H-bonds in five products showed that insertion of a noncarbohydrate link interrupts a single flip-flop H-bond.
REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:606775 CAPLUS
DOCUMENT NUMBER: 131:317265
TITLE: A new specific enzyme immunoassay allowing an efficient pharmacokinetic evaluation of .gamma.-cyclodextrin after intravenous administration to rats
AUTHOR(S): Creminon, Christophe; Djedaini-Pilard, Florence; Vienet, Raymond; Pean, Christophe; Grognet, Jean-Marc; Grassi, Jacques; Perly, Bruno; Pradelles, Philippe
CORPORATE SOURCE: CEA, DRM, Service de Pharmacologie et d'Immunologie, CEA, DRM, Service de Pharmacologie et d'Immunologie, CEA-Saclay, Gif s/Yvette, F-91191, Fr.
SOURCE: Pharmaceutical Research (1999), 16(9), 1407-1411
CODEN: PHREEB; ISSN: 0724-8741
PUBLISHER: Kluwer Academic/Plenum Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Purpose. Because of its ability to form complexes with drugs, .gamma.-cyclodextrin is of great potential value in pharmaceutical formulations. The biol. fate of .gamma.-cyclodextrin must therefore be considered in safety evaluation, using sensitive and specific methods applicable to biol. fluids. Methods. Antibodies were raised against .gamma.-cyclodextrin, allowing the development of a new enzyme immunoassay. The anal. characteristics of this assay were evaluated. Rats were given a single i.v. 25 mg/kg dose of .gamma.-cyclodextrin. Plasma and urine samples were collected and assayed. Results. This new enzyme immunoassay was sensitive (limit of detection close to 94 pg/mL) and suitable for quantification of .gamma.-cyclodextrin in urine and plasma after methanol extn. The use of different linear and cyclic compds. demonstrated the high specificity of the assay. After i.v. administration, the concn. of .gamma.-cyclodextrin rapidly decreased in the plasma while the mol. was probably distributed into the tissues. Although urinary elimination predominates, only 50% of the injected .gamma.-cyclodextrin was recovered in urine, suggesting enzymic degrdn. and/or tissue storage. Conclusions. This assay may provide important information on the fate of .gamma.-cyclodextrin inclusion complexes dedicated to drug-delivery using various modes of administration (oral, parenteral, transmucosal or dermal).
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:248588 CAPLUS
DOCUMENT NUMBER: 130:296916
TITLE: Chemical synthesis of an amylose-like polysaccharide by polymerization of partially benzylated phenyl 1-thio-.beta.-maltooctaoside derived from .gamma.-cyclodextrin
AUTHOR(S): Nishikl, Masahiko; Ousaka, Youko; Nishi, Norio; Tokura, Seiichi; Sakairi, Nobuo
CORPORATE SOURCE: Division of Bio-science, Graduate School of Environmental Earth Science, Hokkaido University, Sapporo, 060-0810, Japan
SOURCE: Carbohydrate Polymers (1999), 39(1), 1-6
CODEN: CAPOD8; ISSN: 0144-8617
PUBLISHER: Elsevier Science Ireland Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An amylose-like .alpha.-(1,4)-glucan was synthesized by polycondensation and subsequent deprotection of a partially benzylated Ph 1-thio-.beta.-maltooctaoside having a sole hydroxyl group at the non-reducing end. The key octasaccharide monomer 6 was prepd. by means of a single-site acetolytic reaction of fully acetylated .gamma.-cyclodextrin and several subsequent chem. manipulations at its reducing and non-reducing ends. On activation with Me triflate, the polycondensation of 6 was found to proceed in di-Et ether through intermol. glycosidation. The mol. wt. of the product obtained by preparative GPC on Sephadex LH-60 was 10 000-18 000. Removal of the O-benzyl groups under Birch reaction gave .alpha.-(1,4)-glucan, the stereoregularity of which was confirmed by 1H and 13C NMR spectroscopy.
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:631393 CAPLUS
DOCUMENT NUMBER: 129:246822
TITLE: Cyclodextrin borate complexes
INVENTOR(S): Baur, Rudiger; Macholdt, Hans-Tobias
PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 866076	A2	19980923	EP 1998-104104	19980307
EP 866076	A3	19990407		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19711260	A1	19980924	DE 1997-19711260	19970318
US 6083653	A	20000704	US 1998-39706	19980316
JP 10298205	A2	19981110	JP 1998-67106	19980317

PRIORITY APPLN. INFO.: DE 1997-19711260 A 19970318

AB Complexes with good charge control properties, which disperse readily in toner, powder coating, and electret binder compns., comprise 1-4 cyclodextrin units and a borate residue B(O-)4-. Stirring 1 mol .beta.-cyclodextrin (d.p. 7), 128 g satd. soda soln., and 1.6 L H2O at 45.degree. until the pH was 12.8, adding 2 mol B(OH)3, stirring for 20 min, cooling to 12.degree., and adding 8 L MeOH gave 1073 g complex contg. 6.5% H2O and 0.3% B, with sp. surface 4.0 m2/g, sp. resistance 107 .OMEGA.-cm, and elec. cond. 5.37 mS/cm. Use of the complex in dry toner compns. is exemplified.

L25 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:378616 CAPLUS
DOCUMENT NUMBER: 129:149144
TITLE: Transfer reactions catalyzed by cyclodextrin glucosyltransferase using 4-thiomaltosyl and C-maltosyl fluorides as artificial donors
AUTHOR(S): Bornaghi, Laurent; Utille, Jean-Pierre; Rekai, El Djouhar; Mallet, Jean-Maurice; Sinay, Pierre; Driguez, Hugues
CORPORATE SOURCE: Centre de Recherches sur les Macromolecules Vegetales, (CERMAV-CNRS), Grenoble, F-38041, Fr.
SOURCE: Carbohydrate Research (1998), Volume Date 1997, 305(3-4), 561-568
CODEN: CRBRAT; ISSN: 0008-6215
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Cyclodextrin glycosyltransferase enzyme from Bacillus circulans catalyzed the effective conversion of 4-thio-.alpha.-maltosyl fluoride into cyclo-.alpha.-(1.fwdarw.42)-thiomalto -tetraoside, -pentaoside, -hexaoside and linear hemi-thiomalto-oligosaccharides. However, under the same conditions, C-maltosyl fluoride afforded only linear modified maltotetraose, maltohexaose and maltooctaose in moderate yield.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:194525 CAPLUS
DOCUMENT NUMBER: 126:242772
TITLE: New functions of peracylated .beta.-cyclodextrins as sustained-release drug carriers
AUTHOR(S): Uekama, K.; Hirayama, F.; Irie, T.
CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Kumamoto University, Kumamoto, 862, Japan
SOURCE: Proceedings of the International Symposium on Cyclodextrins, 8th, Budapest, Mar. 31-Apr. 2, 1996 (1996), 413-418. Editor(s): Szejtli, J.; Szente, L. Kluwer: Dordrecht, Neth.
CODEN: 64CDAL
DOCUMENT TYPE: Conference
LANGUAGE: English

AB A series of peracylated .beta.-CyDs with different alkyl chains (acetyl to octanoyl) were prepd., and their bioadhesive, biodegradable, and film-forming properties were evaluated with particular attention to their potential as possible novel sustained-release carriers for water-sol. drugs in parenteral, oral and transdermal formulations.

L25 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:396641 CAPLUS
DOCUMENT NUMBER: 122:314996
TITLE: Modification of cyclodextrins by insertion of a heterogeneous sugar unit into their skeletons. Synthesis of 2-amino-2-deoxy-.beta.-cyclodextrin from .alpha.-cyclodextrin

AUTHOR(S): Sakairi, Nobuo; Wang, Lai-Xi; Kuzuhara, Hiroyoshi
CORPORATE SOURCE: Institute of Physical and Chemical Research, Saitama, 351-01, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1995), (4), 437-43
CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Title aminodeoxycyclodextrin I was prepd. from .alpha.-cyclodextrin via acetolysis of fully acetylated .alpha.-cyclodextrin resulted in restricted fission of only one of the glucosidic bonds to give the acyclic maltohexaose peracetate and coupling of D-glucosamine precursor with O-benzylated maltohexaoside. Regioselective modifications of both terminals of hexasaccharide were performed by employing Lewis acid-catalyzed thioglycosidation and O-benzylidenation followed by its reductive cleavage as the key reactions, to give the partially O-benzylated maltohexaoside with the sole hydroxy group at the 4VI-position.

L25 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1994:612786 CAPLUS
DOCUMENT NUMBER: 121:212786
TITLE: Controlled release of the LHRH agonist buserelin acetate from injectable suspensions containing triacetylated cyclodextrins in an oil vehicle
AUTHOR(S): Matsubara, K.; Irie, T.; Uekama, K.
CORPORATE SOURCE: Pharma Research Laboratories, Hoechst Japan Ltd, Kawagoe, Saitama, 350-11, Japan
SOURCE: Journal of Controlled Release (1994), 31(2), 173-80
CODEN: JCREEC; ISSN: 0168-3659
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Heptakis(2,3,6-tri-O-acetyl)-.beta.-cyclodextrin (TA-.beta.-CyD) and octakis(2,3,6-tri-O-acetyl)-.gamma.-cyclodextrin (TA-.gamma.-CyD) were prepd. for use as hydrophobic carriers of buserelin acetate (BLA), an agonist of LH-releasing hormone. The results from this study suggest that the in vitro release of BLA from the peanut oil suspension into the aq. phase was retarded by complexation with TA-CyDs. A single s.c. injection of the oily suspension of BLA contg. TA-.beta.-CyD and TA-.gamma.-CyD in rats led to retardation of plasma levels of BLA, resulting in 25- and 39-fold longer mean residence times, resp., than that of BLA alone. Simultaneously with the suppression of plasma testosterone to castrate level, the pharmacol. effectiveness of BLA continued for 1-2 wk and significant wt. redn. of genital organs was obsd. due to the antigonadal effect. Since TA-.beta.-CyD and TA-.gamma.-CyD were degraded enzymically in rat skin homogenates, both TA-CyDs can be useful as bioabsorbable sustained-release carriers for hydrophilic peptides following the s.c. injection of an oily suspension.

L25 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1994:491479 CAPLUS
DOCUMENT NUMBER: 121:91479
TITLE: Possible use of triacetylated cyclodextrins in the preparation of sustained-release oily injection of LHRH agonist, buserelin acetate
AUTHOR(S): Matsubara, K.; Kuriki, T.; Irie, T.; Uekama, K.
CORPORATE SOURCE: Res. and Dev. Lab., Hoechst Jpn. Ltd., Kawagoe, 350, Japan
SOURCE: Minutes Int. Symp. Cyclodextrins, 6th (1992), 547-50. Editor(s): Hedges, Allan R. Ed. Sante: Paris, Fr.
CODEN: 60BCAL
DOCUMENT TYPE: Conference
LANGUAGE: English

AB Triacetylated .beta.- and .gamma.-cyclodextrins (TA-CyDs) were prepd. and some of their phys. properties such as hygroscopicities and solubilities were investigated. A single s.c. injection of the oily suspension contg. the buserelin acetate (BLA)-TA-CyDs complexes into rats provided sustained plasma level of BLA, reflecting the in-vitro release behavior as the case of BLA-diethyl-.beta.-cyclodextrin complex. These hydrophobic BLA-CyD complexes, consequently suppressed testosterone levels to castrate for 1-4 wk and the significant wt. redn. was obsd. in genital organs.

L25 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1994:408900 CAPLUS
DOCUMENT NUMBER: 121:8900
TITLE: Enantiomeric resolution of 4-(3,4-dichlorophenyl)-3,4-dihydro-1(2H)-naphthalenone
INVENTOR(S): Lorenz, Douglas A.; Brose, Daniel J.

PATENT ASSIGNEE(S): Bend Research, Inc., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5288916	A	19940222	US 1993-36809	19930325
EP 616996	A1	19940928	EP 1994-301884	19940316
EP 616996	B1	19970730		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
EP 781753	A1	19970702	EP 1996-120170	19940316
EP 781753	B1	19990331		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 156113	E	19970815	AT 1994-301884	19940316
ES 2105510	T3	19971016	ES 1994-301884	19940316
AT 178307	E	19990415	AT 1996-120170	19940316
ES 2129248	T3	19990601	ES 1996-120170	19940316
CA 2119674	AA	19940926	CA 1994-2119674	19940323
CA 2119674	C	19980414		
FI 9401376	A	19940926	FI 1994-1376	19940324
JP 07002718	A2	19950106	JP 1994-55428	19940325

PRIORITY APPLN. INFO.: US 1993-36809 19930325
EP 1994-301884 19940316

AB Enantiomers of 4-(3,4-dichlorophenyl)-3,4-dihydro-1(2H)-naphthalenone (I) are resolved on an industrial scale by contacting racemic I with a homogeneous or nonhomogeneous liq. mixt. of a solvent (e.g., alcs. alkanes, ketones, etc.) and water, pure and unsupported .gamma.-cyclodextrin or its derivs. are added to form a selectively bound I enantiomer complex, the mixt. stirred or centrifuged to sep. the complex ppt., and the I enantiomer sepd. from the cyclodextrin complex by solvent extn.

L25 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:24407 CAPLUS
DOCUMENT NUMBER: 114:24407
TITLE: Interglycosidic torsion angle estimation by carbon-13-proton coupling constant measurements
AUTHOR(S): Morat, Claude; Taravel, Francois R.
CORPORATE SOURCE: Lab. Etud. Dyn. Struct. Select., Univ. Joseph Fourier, Grenoble, 38041, Fr.
SOURCE: Bulletin of Magnetic Resonance (1989), 11(3-4), 321-3
CODEN: BUMRDT; ISSN: 0163-559X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An equation relating 3-bond 13C-proton coupling and torsional bond angle was applied to detg. the interglycosidic torsional angle in acetylated cyclomaltodextrins, cellulose triacetate, and amylose triacetate.

L25 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1990:459717 CAPLUS
DOCUMENT NUMBER: 113:59717
TITLE: Measurement of long-range heteronuclear couplings: application to oligosaccharide conformation
AUTHOR(S): Morat, Claude; Taravel, Francois R.
CORPORATE SOURCE: Lab. Etud. Dyn. Struct. Sel., Univ. Joseph Fourier, Grenoble, 38041, Fr.
SOURCE: Tetrahedron Letters (1990), 31(10), 1413-16
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The vicinal or 3-bond coupling consts. [3J(C,H)] values were measured by using 2-dimensional J heteronuclear-resolved NMR spectroscopy to est. interglycosidic conformations in various oligosaccharides with a d.p. ranging from 6 to 30.

L25 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1974:83442 CAPLUS
DOCUMENT NUMBER: 80:83442
TITLE: Carbon-13 nuclear magnetic resonance spectra of cycloamyloses and their peracetates
AUTHOR(S): Takeo, Kenichi; Hirose, Kenji; Kuge, Takashi
CORPORATE SOURCE: Dep. Agric. Chem., Kyoto Prefect. Univ., Kyoto, Japan
SOURCE: Chemistry Letters (1973), (12), 1233-6
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Carbon-13 chem. shifts were detd. for cyclohexa-, -hepta-, and -octamylose, amylase, Me 6-deoxy-.alpha.-D-glucopyranoside, 6-deoxycyclohexaamylose and its peracetate, and the peracetates of cyclohexa-, -hepta-, and -octaamylose. Steric effects imposed by the cyclic nature of the dextrins on the conformation of the glycopyranose residues were reflected in their spectra.

L25 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1971:9680 CAPLUS
DOCUMENT NUMBER: 74:9680
TITLE: Conformation of peracetylated cyclodextrins
AUTHOR(S): Takeo, Kenichi; Kuge, Takashi
CORPORATE SOURCE: Dep. Agr. Chem., Kyoto Prefect. Univ., Kyoto, Japan
SOURCE: Agricultural and Biological Chemistry (1970), 34(9), 1416-19
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
AB NMR spectral anal. of peracetylated cyclodextrins suggested that the glucose residues exist largely in the C1 conformation.